

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently amended) In vivo diagnostic or therapy micro-device comprising:
 

——— a substantially longitudinal body having a length defined between a first end face and a second end face opposite the first end face, the first end face being a proximal face, the body further having opposite lateral faces, an upper face, and a lower face defining a quadrilateral-shaped cross section of the body, the body provided with at least one a first main canal in the direction of its the length, one wherein an input of which the first main canal is located at a the first end face of the body, the body being further provided with wherein the first end face is a proximal face, and ——— a plurality of secondary canals connected to at least one the first main canal and opening up sideways by lateral outputs; wherein the in vivo diagnostic or therapy micro-device is implantable;

one or more electrodes located on at least one of the upper face and the lower face; and

one or more electrical connections located at the first end face of the body,

wherein the in vivo diagnostic or therapy micro device is implantable.
2. (Cancelled)
3. (Currently amended) Micro-device according to claim 21, the electrical connection being pins comprising micro-cavities made in the body of the micro-device, the cavities having a height and width between 10  $\mu\text{m}$  and 50  $\mu\text{m}$ .
4. (Currently amended) Micro-device according to claim 1, further comprising a second comprising at least two parallel main canals parallel to the first main canal.

5. (Currently amended) Micro-device according to claim 1, ~~wherein the~~ at least one of the main canals ~~opening opens~~ up to a ~~the~~ second end ~~face~~ of the body, wherein the second end ~~face~~ is a distal face, and the input into the ~~at least one~~first main canal ~~being is~~ funnel-shaped.
6. (Original) Micro-device according to claim 1, the body having two parallel opposite surface areas between the first and the second ends, and comprising a second bevel-shaped end.
7. (Previously presented) Micro-device according to claim 1, the body having a square or rectangular section in which each side has a maximum dimension of less than 900  $\mu\text{m}$ , and the longitudinal extension of the body being between 0.5 cm and 3 cm.
8. (Original) Micro-device according to claim 1, the body of the device being made of silicon.
9. (Original) Micro-device according to claim 1, further comprising a wave guide.
10. (Currently amended) In vivo diagnostic or therapy micro-device comprising:
  - a substantially longitudinal body having a length defined between a first end face and a second end face opposite the first end face, the first end face being a proximal face, the body further having opposite lateral faces, an upper face, and a lower face defining with a quadrilateral-shaped cross section, the body being provided with at least one a first main canal in the direction of its ~~the~~ length, ~~wherein an one~~ input of which ~~the first main canal~~ is located at a the first end face of the body, wherein the first end face is a proximal face;
  - one or more electrodes located on an outside portion of the body; and

- one or more electrical connection pins located at the first end face of the body, close to the input to said canal,

wherein the in vivo diagnostic or therapy micro-device is implantable.

11. (Previously presented) Micro-device according to claim 10, the electrical connection pins comprising micro-cavities made in the body of the micro-device, the micro-cavities having a height and width between 10  $\mu\text{m}$  and 50  $\mu\text{m}$ .

12. (Currently amended) Micro-device according to claim 10, further comprising a second at least two parallel main canals parallel to the first main canal.

13. (Currently amended) Micro-device according to claim 10, wherein the first at least one of the main canals opening up to a the second end face of the body, wherein the second end face is a distal end face, and the input into the at least one first main canal being is funnel-shaped.

14. (Original) Micro-device according to claim 10, the body having two parallel opposite surface areas between the first and the second ends, and comprising a second bevel-shaped end.

15. (Previously presented) Micro-device according to claim 10, the body having a square or rectangular section in which each side has a maximum dimension of less than 900  $\mu\text{m}$ , and the longitudinal extension of the body being between 0.5 cm and 3 cm.

16. (Original) Micro-device according to claim 10, the body of the device being made of silicon.

17. (Original) Micro-device according to claim 10, further comprising a wave guide.
- 18-24. (Cancelled)
25. (Previously presented) Micro-device according to claim 7 wherein the maximum dimension is less than 300  $\mu\text{m}$ .
26. (Previously presented) Micro-device according to claim 15 wherein the maximum dimension is less than 300  $\mu\text{m}$ .
27. (New) Micro-device according to claim 1, wherein each lateral face of the body comprises one or more lateral outputs of the plurality of secondary canals connected to the first main canal.
28. (New) Micro-device according to claim 1, wherein the electrodes are placed in lateral walls of the body without projecting beyond or outside the quadrilateral-shaped cross section.
29. (New) Micro-device according to claim 1, wherein the electrical connections are pins inserted in notches made in the first end face and upper face of the body.
30. (New) Micro-device according to claim 1, wherein the electrical connections are pins inserted in notches made in the first end face and the lower face of the body.

31. (New) Micro-device according to claim 1, further comprising a plurality of secondary canals connected to the second main canal and opening up sideways by lateral outputs, each lateral face of the body comprising one or more lateral outputs of the secondary canals.